

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Annex
4041 N. Richards Street, Box 12436
Milwaukee, Wisconsin 53212-0436
TELEPHONE 414-229-0800
FAX 414-229-0810

April 15, 1998

Mark Gottlieb
Village of Grafton Department of Public Works
P.O. Box 125
Grafton, WI 53024

SUBJECT: Case closure, Village of Grafton DPW Hickory Street Garage, gasoline and diesel underground storage tanks, 1300 Hickory Street, Grafton, file reference FID #246121370 RR-LUST

Dear Mr. Gottlieb:

I have reviewed your case file based on documents submitted by Advent Environmental Services. Based on this information I agree with Advent in that no further work is needed. The department reserves the right to reopen this case pursuant to s. NR726.09, Wisconsin Administrative Code (WAC), should additional information regarding site conditions indicate contamination on or from the site poses a threat to public health, safety or welfare or the environment. Some of my reasons for closing this case are as follows:

1. The source for any additional groundwater contamination (soils) has been remediated.
2. The groundwater contaminant concentration has been clearly decreasing at the source (tank area) and in the downgradient well.
3. The downgradient well is contaminated over the preventative action limit by only about 1/2 of one part-per-billion benzene.

To complete the closure of this site, you must place a groundwater use restriction on the property deed at the county register of deeds office which specifies the legal description of the property, the location, type, and concentration of the contaminants and includes the following language:


Natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR 140 groundwater standards within the boundaries of this property. Construction of wells where water quality exceeds the drinking water standards in ch. NR809 is restricted by chs. NR811 and NR812. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply. Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater to determine what specific requirements are applicable prior to constructing or reconstructing a well on this property.

Within 60 days all of the groundwater monitoring wells at the site must be abandoned in accordance with WAC NR 141 and the completed abandonment forms must be submitted to the department. Once the department receives the abandonment forms and a copy of the deed restriction, this case will be tracked as closed on our computer tracking system.

I have signed your PECFA Form DNR 4-B for completed remedial action at the site. Please send your completed claim application with the original copy of the form DNR 4-B to the Wisconsin Department of Commerce.

If you have any questions about this letter, call me at 414-229-0850.

Sincerely,


John Feeney
Hydrogeologist

cc: SER File
Advent Environmental Services, Inc.

GROUNDWATER USE RESTRICTION

WHEREAS, the Village of Grafton is the owner of the property described as follows:

Part of the north 1/2 of the southeast 1/4 of Section 13, Town 10 North, Range 21 East, Village of Grafton, Ozaukee County, described as follows:

Commencing at the center of said Section 13, thence N 86°-29'-21.8" E along the 1/4-section line 2,106 feet to a point on the centerline of CTH 'O', which is the point of beginning of the land to be described; thence S 86°-29'-21.8" W along said 1/4-section line to a point on the east line of the WEPCO right-of-way, thence S 35°-40' W 314.6 feet to a point, thence N 89°-04'E 688.2 feet to a point in the centerline of CTH 'O', thence N 21°-30'E 262.6 feet to the point of beginning, containing 3.68 acres more or less.

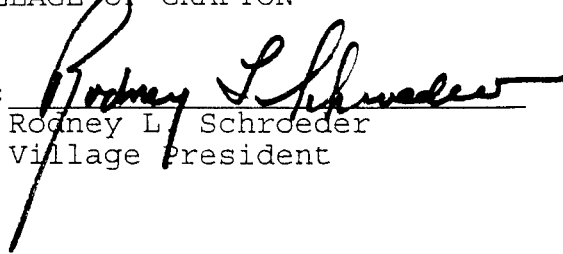
WHEREAS, the Village of Grafton, for itself and its successors in interest wishes to place the following restriction on said property:

Natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR140 groundwater standards within the boundaries of this property. Construction of wells where quality exceeds the drinking water standards in ch. NR809 is restricted by chs. NR811 and NR812. Special well construction standards or water treatment requirement, or both, or well construction prohibitions may apply. Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater to determine what specific requirements are applicable prior to constructing or reconstructing a well on this property.

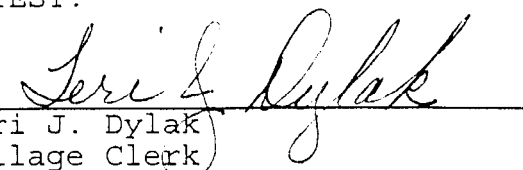
Dated at Grafton, Wisconsin, this 7th day of May, 1998

VILLAGE OF GRAFTON

By:

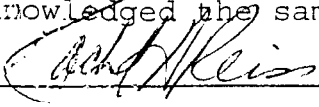

Rodney L. Schroeder
Village President

ATTEST:


Teri J. Dylak
Village Clerk

STATE OF WISCONSIN }
 : S.S.
COUNTY OF OZAUKEE }

Personally came before me, on May 7th, 1998, the above-named Rodney L. Schroeder, President and Teri J. Dylak, Clerk, known to me to be the persons who executed the foregoing and who acknowledged the same.

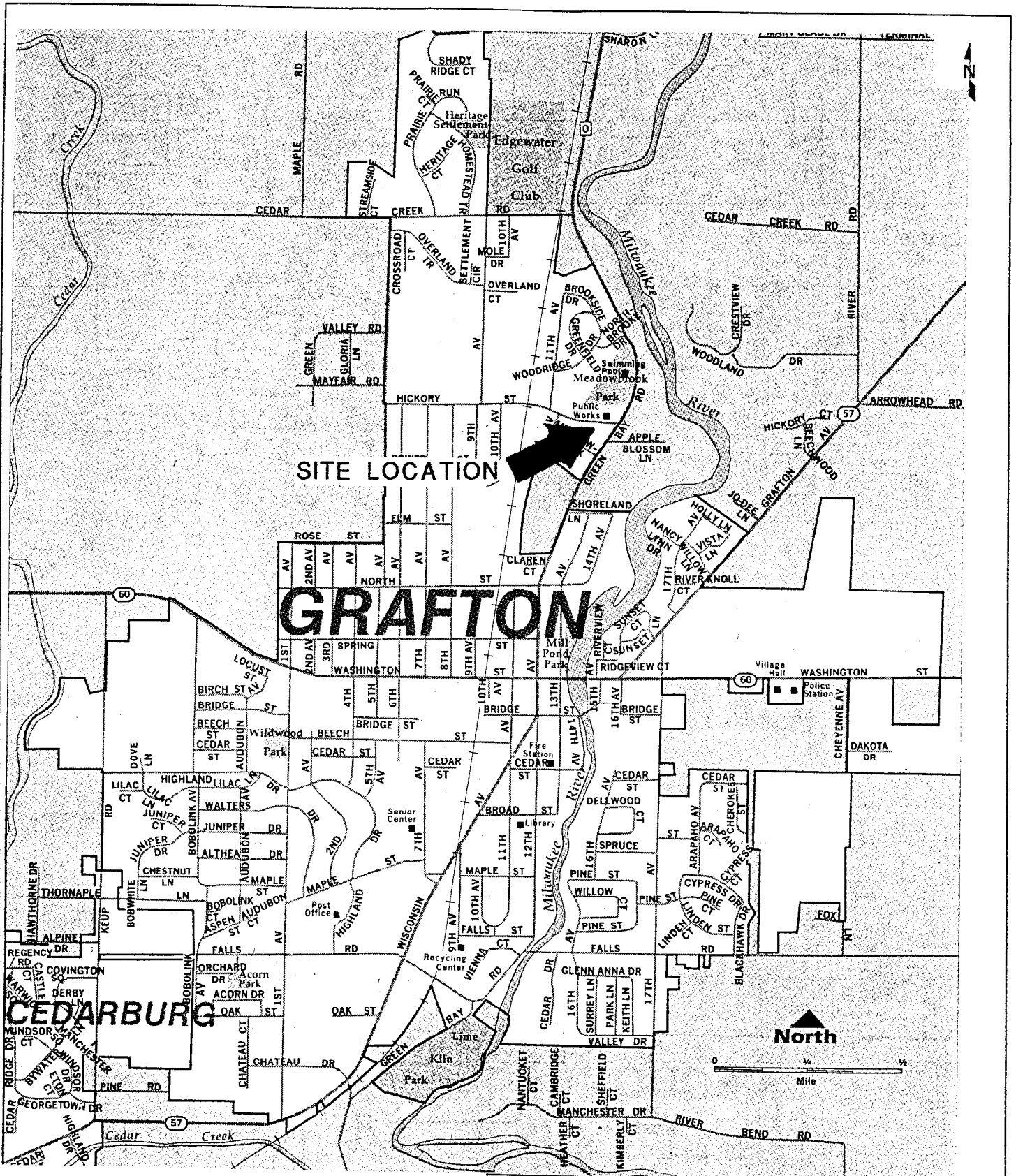


Rachel A. Reiss

(Print Name of Signer)

Notary Public, State of Wisconsin
My commission expires ~~xxx~~: 06-03-2001

COPY



NOTE:
 BASE MAP DEVELOPED FROM THE AMERITECH
 PUBLISHING, INC. 1994 INFORMATION PAGES.

DRAWN BY: KRK
 APPROVED BY:
 DATE: 9/23/97
 PROJECT #97170.03
 REVISION #

FIGURE #1 DETAIL SHEET
 SITE LOCATION
 GRAFTON D.P.W. - HICKORY STREET
 GRAFTON, WISCONSIN

A D V E N T
 ENVIRONMENTAL SERVICES, INC.

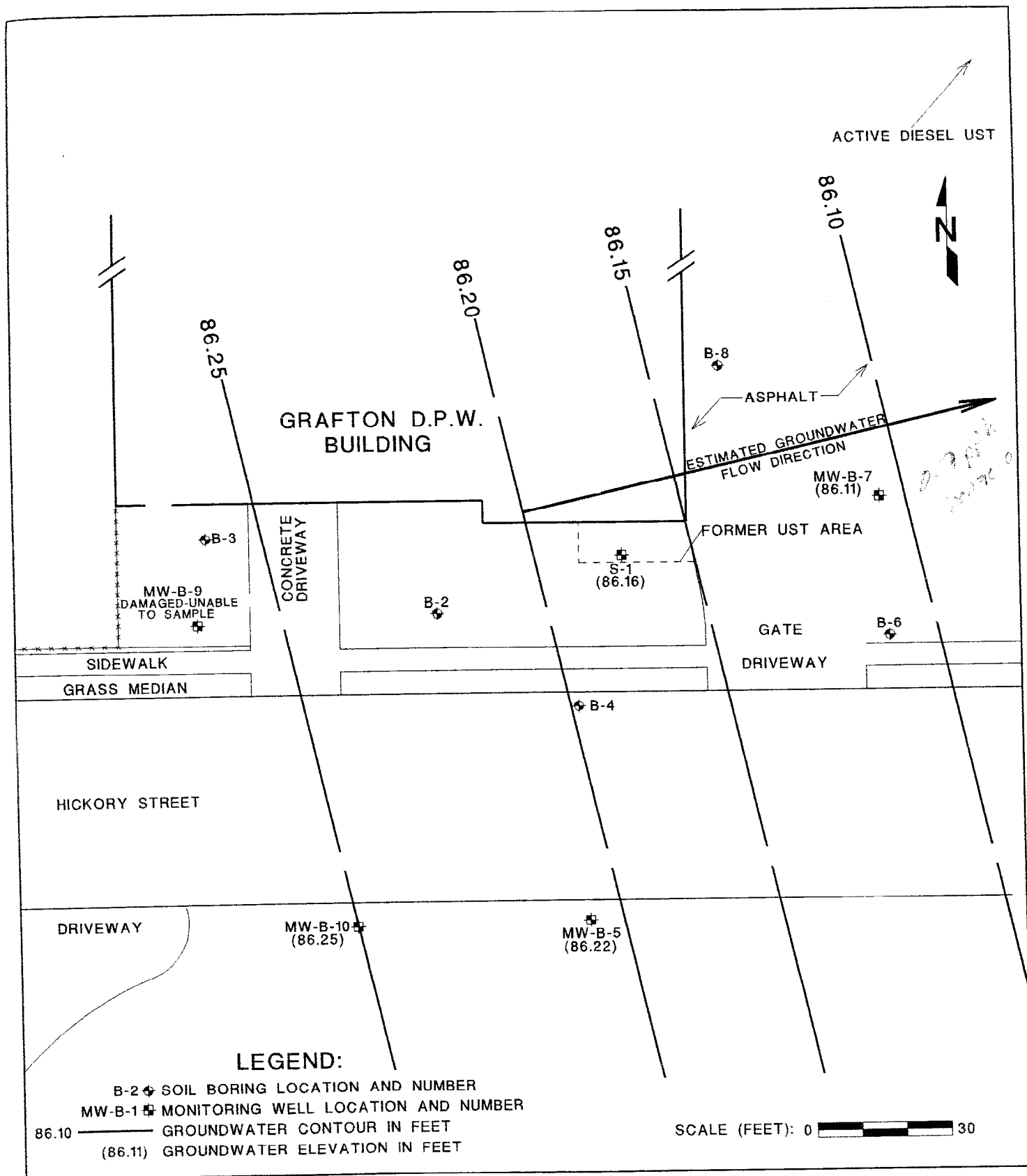


FIGURE 2 RELATIVE GROUNDWATER ELEVATION
(DATA COLLECTED 8/28/97)
GRAFTON D.P.W. - HICKORY STREET
GRAFTON, WISCONSIN

A D V E N T
ENVIRONMENTAL SERVICES, INC.
DATE: 9/23/97
DRAWING # 97170.03B

TABLE 1 (page 1 of 2)
ANALYTICAL RESULTS - GROUNDWATER
GRAFTON DPW, HICKORY STREET

Sample	W-1	W-1 DUP	S-1	S-1	S-1	S-1	W-5	W-5	W-5	W-5	W-5	NR 140 Groundwater Standards	
Monitor Well	MW-B-1	MW-B-1	S-1	S-1	S-1	S-1	MW-B-5	MW-B-5	MW-B-5	MW-B-5	MW-B-5		
Date Collected	3/15/95	3/15/95	11/26/96	2/21/97	5/22/97	8/28/97	3/15/95	11/26/96	2/21/97	5/22/97	8/28/97		
ANALYTE												ES	PAL
GROs (ppm)	5.6	--	3.8	1.6	--	--	ND	--	ND	--	--	---	---
DROs (ppm)	8	--	330	--	--	--	ND	--	--	--	--	---	---
Total Lead (ppb)	ND	--					ND	--	--	--	--	15	1.5
Iron (ppm)			7.5	0.80	3.5	7.4	--	3.0	1.2	0.24	1.4	--	--
Manganese (ppm)	--	--	1.700	0.520	0.900	0.620	--	0.350	0.150	0.046	0.110	--	--
Nitrate (ppm)	--	--	ND	0.25	0.059	ND	--	ND	0.076	0.092	0.033	10	2
Sulfate (ppm)	--	--	41	13	11	30	--	48	34	30	41	--	--
Dissolved Oxygen (mg/l)	--	--	--	0.4	2.24	0.38	--	0.32	1.94	2.6	0.56		
PVOCs/VOCs (ppb) ¹													
Benzene	1,400	1,300	630	220	250	200	ND	ND	ND	ND	ND	5	0.5
n-Butylbenzene	ND	ND	14	--	7.4	40.0	ND	--	--	--	--	---	---
1,1-Dichloroethane	ND	ND	ND	--	ND	ND	ND	--	--	--	--	850	85
1,2-Dichloroethane	ND	ND	ND	--	ND	ND	ND	--	--	--	--	5	1
Ethylbenzene	130	120	120	49	81	66	ND	ND	ND	ND	ND	700	140
Methyl-tert-butyl-ether	3,200	2,800	130	13	12	ND	8	ND	ND	ND	ND	60	12
Naphthalene	100	92	230	--	130	120	ND	--	--	--	--	40	8
n-propylbenzene	ND	ND	ND	--	6.0	13.0	ND	--	--	--	--	---	---
Toluene	59	52	170	38	6.8	15.0	1.3	ND	0.90	ND	ND	343	69
Trichloroethene	ND	ND	ND	--	ND	ND	ND	--	--	--	--	5	1
1,2,4-Trimethylbenzene	120	110	210	100	180	140	ND	ND	ND	ND	ND	---	---
1,3,5-Trimethylbenzene	35	32	46	40	51	37	ND	ND	ND	ND	ND	---	---
Xylene (total)	570	510	850	295	188	108	ND	ND	1.2	ND	ND	620	124

¹ For a complete list of VOCs, see Attachment A.

-- = not analyzed or not applicable

Shaded values exceed ES; bold values exceed PAL.

TABLE 1 (page 2 of 2)
ANALYTICAL RESULTS - GROUNDWATER
GRAFTON DPW, HICKORY STREET

Sample	W-7	W-7	W-7	W-7	W-7	W-9		W-10	W-10	W-10	W-10	W-10	NR 140 Groundwater Standards	
Monitor Well	MW-B-7	MW-B-7	MW-B-7	MW-B-7	MW-B-7	MW-B-9	MW-B-9	MW-B-10	MW-B-10	MW-B-10	MW-B-10	MW-B-10		
Date Collected	3/15/95	11/26/96	2/21/97	5/22/97	8/28/97	8/18/95	11/26/96	8/18/95	11/26/96	2/21/97	5/22/97	8/28/97		
ANALYTE														
GROs (ppm)	ND	--	ND	--	--	ND	Damaged	ND	--	ND	--	--	ES	PAL
DROs (ppm)	ND	--	--	--	--	ND	Unable	0.17	--	--	--	--	--	--
Total Lead (ppb)	ND	--	--	--	--	ND	To	ND	--	--	--	--	--	--
Iron (ppm)	--	3.2	2.1	1.5	2.0	--	Sample	--	0.79	0.29	0.021	0.63	15	1.5
Manganese (ppm)	--	0.310	0.270	0.900	0.220	--		--	0.074	0.072	0.053	0.11	--	--
Nitrate (ppm)	--	0.027	0.059	0.059	ND	--		--	ND	0.075	ND	0.031	10	2
Sulfate (ppm)	--	37	26	11	42	--		--	40	41	36	38	--	--
Dissolved Oxygen (mg/l)	--	0.23	0.55	2.3	0.37	--		--	2.3	3.9	2.2	0.68	--	--
PVOCs/VOCs (ppb) ¹														
Benzene	2	1.7	0.71	ND	0.99	ND		ND	ND	ND	ND	ND	5	0.5
n-Butylbenzene	ND	--	--	--	--	ND		ND	--	--	--	--	--	--
1,1-Dichloroethane	ND	--	--	--	--	ND		4	--	--	--	--	850	85
1,2-Dichloroethane	ND	--	--	--	--	ND		ND	--	--	--	--	5	1
Ethylbenzene	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	700	140
Methyl-tert-butyl-ether	18	4.0	3.2	3.0	3.9	ND		ND	ND	ND	ND	ND	60	12
Naphthalene	ND	--	--	--	--	ND		ND	--	--	--	--	40	8
n-propylbenzene	ND	--	--	--	--	ND		ND	--	--	--	--	--	--
Toluene	ND	ND	1	ND	ND	ND		ND	ND	0.90	ND	ND	343	69
Trichloroethene	ND	--	--	--	--	ND		1	--	--	--	--	5	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	--	--
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	--	--
Xylene (total)	ND	ND	2	ND	ND	ND		ND	ND	1.2	ND	ND	620	124

¹ For a complete list of VOCs see Attachment A.

-- = not analyzed or not applicable

Shaded values exceed ES; bold values exceed PAL.